



Achieving visibility and intelligence across your supply chain

The benefits of Qlik Cloud Data
Integration and the Microsoft
Intelligent Data Platform.



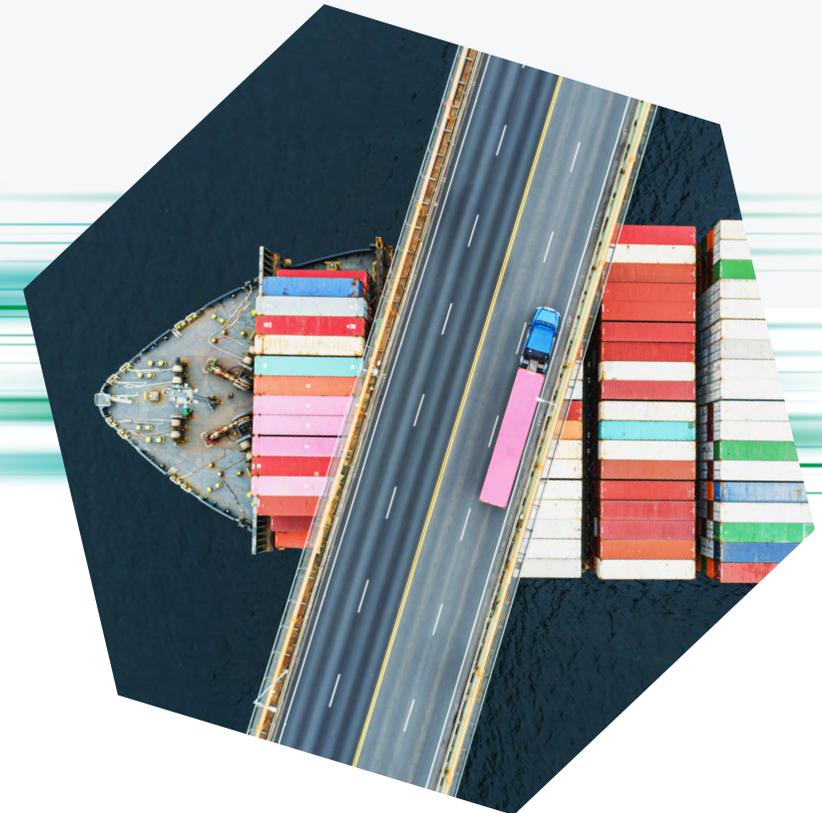
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It's time for seamless integration and advanced analytics

For leaders in the dynamic world of manufacturing supply chains, in-the-moment insights matter. From surfacing real-time data with modern data integration to applying advanced analytics for immediate business insight, the seamless flow of information is critical.

Here, we look at how supply chain leaders can achieve the kind of in-depth Intelligence needed to increase visibility and streamline today's complex supply chains – by bringing together Qlik Cloud Data Integration and the Microsoft Intelligent Data Platform.



Responding to challenging times

Unprecedented. Over the past few years, the global supply chain has been subjected to a succession of shocks the likes of which have never been seen before. As a result, already fragile – and often “just in time” – manufacturing processes have reached new levels of uncertainty and unpredictability.

Events that were once exceptional, however, are now everyday occurrences. Port congestion, extreme weather, factory shutdowns, labor shortages, and spikes in demand are commonplace. As a result, manufacturers working to already tight production schedules now have to factor in a whole new range of considerations. A widely-expected economic slowdown is unlikely to ease those pressures, either.

Amidst all of this uncertainty, though, lies opportunity. Within every organization are the insights needed to tackle those challenges head on, and create new standards of resilience, sustainability, and efficiency. All that's needed is the ability to leverage them effectively; all that's needed is a smarter and more agile approach to data.



Supply chain challenges aren't going away anytime soon.

In a recent survey by SAP¹...



52%

of senior business decision makers said that their supply chain still needs improvement.



74%

are planning to adopt new technology to help them tackle those challenges.



64%

are set to move from a “just-in-time” to “just-in-case” model.

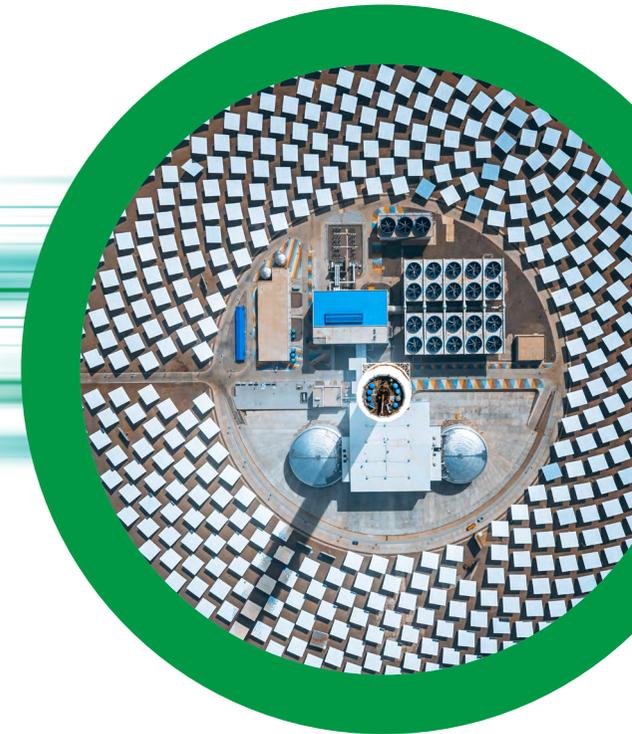
The power of insights

The world's most successful supply chain organizations don't leave anything to chance. Instead, they're building real-time data pipelines that deliver insights, visibility, and in-the-moment awareness across the whole of their network.

Rather than relying on historical reports or hard-to-access data, manufacturers are embracing up-to-the-minute information from every point in their supply chain – giving them the ability to act confidently and decisively, even as circumstances change.

What does that mean in practice?

- Spotting disruptions and delays as soon as possible, enabling them to be solved before they lead to even greater problems.
- Optimising inventory with a real-time view of production and demand, minimising stockouts and reducing carrying costs.
- Using alerts and automation to streamline the fulfilment process, creating a lean and efficient warehousing operation.
- Democratizing forecasting and planning by providing everyone involved in the chain with a consistent real-time view.





Mercedes-Benz

“The Mercedes MO360 Data Platform is the evolution of our digital production ecosystem. MO360 allows teams to identify supply chain bottlenecks faster and enable a dynamic prioritization of production resources. This unified data platform includes integrated solutions from Microsoft, Databricks and Qlik, and provides Mercedes with flexibility and cloud computing power to run artificial intelligence (AI) and analytics at global scale while addressing cybersecurity and compliance standards across regions.”

Mercedes

Qlik Cloud Data Integration and Azure in Action

- Global mining giant Vale worked with Qlik to transform complex and resource-intensive distribution processes. The creation of a smarter, integrated planning process is delivering yearly benefits of \$600m.
- International food services company Aramark struggled with operational visibility due to siloed data. With Qlik’s help, a single platform now delivers real-time insights to users everywhere, reducing overtime and food waste alike.
- With the aid of Qlik, industrial manufacturer Greene Tweed has been able to apply AI-enabled operations to decades worth of data, empowering predictive analytics that have a 90-day accuracy of more than 95%.
- As part of a strategic initiative to increase vehicle production efficiency and solve supply bottle necks, Mercedes-Benz has introduced the MO360 Data Platform – integrating solutions from Qlik and Microsoft Azure, and connecting its passenger car plants to the cloud.



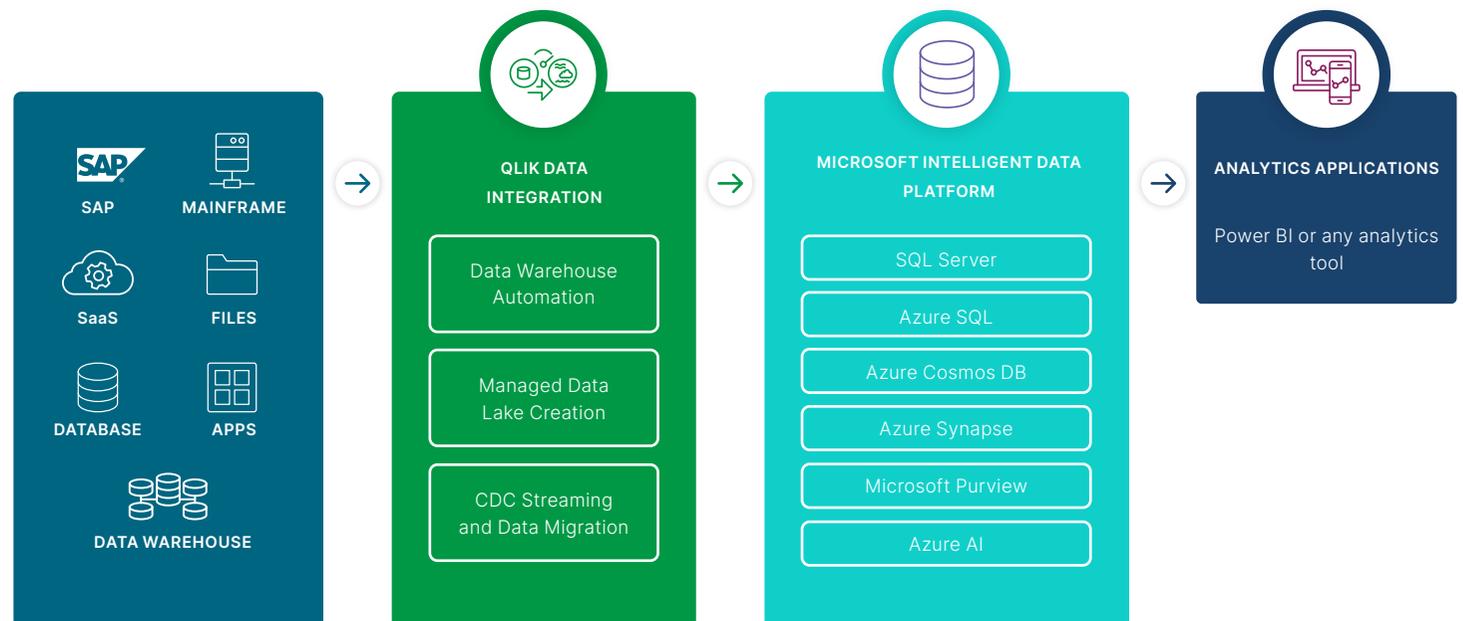
“Extracting SAP data with Qlik Data Integration then analyzing with Qlik Sense enables us to tell the whole story through data and that is a huge benefit.”

David Hufnagle, Manager of Enterprise Data and Analytics, Greene Tweed

Driving your intelligent journey

Delivering in-the-moment insights begins with modern data integration – surfacing data from suppliers, partners, warehousing and stores, then turning it into intelligence through powerful, AI-driven analytics.

Here, the combination of Qlik Cloud Integration and the Microsoft Intelligent Data Platform makes it simple.



Uncovering Qlik Cloud Data Integration

Right data, right place, right time. Every time.

From the machines on the factory floor to the materials in stock, personnel and productivity through to freight and fulfilment, the modern manufacturing business is awash with data. Just like the industry itself, that data is continually shifting and evolving, creating endless opportunities to reimagine key processes for the better.

All too often, though, supply chain organizations struggle to bring that data together effectively. Distributed across a variety of systems and split across on-premise and cloud based platforms, it sits siloed and untapped, tangled up in red tape rather than being used as the dynamic source of insight and innovation that it should.

Even when IT teams know about that problem, traditional solutions can be less than ideal. In trying to sync up their on-premise and cloud-based data systems, many resort to complex custom scripts that take a huge amount of time to develop – and can break as soon as there's a significant change in the data. Once again, agility suffers as a result.

That's where Qlik Cloud Data Integration can help.



Qlik Cloud Data Integration is a powerful data integration fabric. It helps manufacturer IT teams deliver, transform, and unify their organization's information – ensuring that the right data arrives in the right place and in the right “shape”, in near-real time. Wherever it lives, and whatever format it's in, Qlik Cloud Data Integration ensures that your supply chain data is useful and usable.

Qlik Cloud Data Integration uses automated pipelines to transform and deliver raw data into trusted insight. Offering a variety of automated data integration styles, Qlik Cloud Data Integration employs active metadata, lineage graphs, semantics, and machine learning to streamline the integration process.

With Qlik Cloud Data Integration, supply chain organizations can enjoy...



1. Best in class real-time data movement

Enterprise-grade on-premise to cloud data replication capabilities, with the ability to deliver data from almost any source to any target. From on-premise systems like mainframes and SAP through to cloud destinations such as Azure Synapse and Google Big Query, Qlik Cloud Data Integration also gives you complete control over your transfer loads.

2. Automated data pipelines for engineering and productivity

With push-down SQL, IT teams can define reusable transformations that set data policies, generate logic, and schedule automatic execution. Simplifying complex workloads and empowering DataOps best practice, Qlik Cloud Data Integration also enables easy integration of a range of SaaS-based applications.

3. Explainable analytics with data governance

With its integrated metadata catalogue, Qlik Cloud Data Integration allows for the easy discovery and profiling of data. Lineage and knowledge graphs provide comprehensive visibility of active metadata across the organization, while machine learning-driven analytics drive robust governance.



Exploring Microsoft Intelligent Data Platform

Intelligent data, smarter insights.

In today's fast moving world, decisions need to be made at the speed of thought. But with huge gaps between databases and analytics products, and the fragmented nature of most organizations' data estates, that presents even the most forward-thinking organizations with a significant challenge. A consistent data ecosystem – one that brings data integration, data warehousing, machine learning operations (MLOps), and business intelligence (BI) together – is imperative.

The Microsoft Intelligent Data Platform brings disparate data – both operational and analytical – together, and makes it actionable through advanced automation and AI. The platform also offers full integration into Microsoft 365, Dynamics 365, and Power Platform, alongside a comprehensive suite of privacy, security, and compliance capabilities.



The Microsoft Intelligent Data Platform gives supply chain organizations the ability move beyond the cost and complexity of point solutions with a unified data and AI platform. It helps them to adapt rapidly, add layers of intelligence to apps, generate predictive insights, and govern all their data – wherever it resides.

With the Microsoft Intelligent Data Platform, manufacturers can fully integrate their databases, analytics, and governance.

- **Databases**
The Microsoft Intelligent Data Platform enables the creation of fully cloud-native applications and the modernization of existing applications with fully managed, flexible databases.
- **Analytics**
The platform empowers the analysis of large volumes of data in near real-time – by using services including Azure Synapse Analytics, Azure Data Factory, and Azure Synapse Link to combine data and prepare it for analysis in a central, secure environment.
- **Data Governance**
Data stays valuable, accessible, and trustworthy with unified governance. Through this open and governed system, organisations can keep track of integration pipelines and understand and easily trace data lineage. That way, anyone in an organization – from data scientists to domain experts – can explore, access, and analyse data as they wish, in complete confidence.

As a member of the Microsoft Intelligent Data Platform ecosystem, Qlik Cloud Data Integration surfaces and delivers all the critical business and supply chain data you need – seamlessly integrating it into this powerful platform.

Learn how Qlik Cloud Data Integration and the Microsoft Intelligent Data Platform come together to drive visibility, efficiency and cost reduction across your extended manufacturing supply chain.

Visit qlik.com



About Qlik

Qlik transforms complex data landscapes into actionable insights, driving strategic business outcomes. Serving over 40,000 global customers, our portfolio leverages advanced, enterprise-grade AI/ML and pervasive data quality. We excel in data integration and governance, offering comprehensive solutions that work with diverse data sources. Intuitive and real-time analytics from Qlik uncover hidden patterns, empowering teams to address complex challenges and seize new opportunities. Our AI/ML tools, both practical and scalable, lead to better decisions, faster. As strategic partners, our platform-agnostic technology and expertise make our customers more competitive.

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